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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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OFFICE OF PETITIONS

In re application of : Confirmation No. 3734
Kiyomi SAKAMOTO et al. : Attorney Docket No. 2001_0308A
Serial No. 09/805,991 : Group Art Unit 2671
Filed March 15, 2001 : Examiner Lance W. Sealey
MAP DISPLAY DEVICE AND : Mail Stop: Petition
NAVIGATION DEVICE

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
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ACCOUNT NO. 23-0975

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- ☒ each U.S. Patent and U.S. Patent application publication;
- ☐ each reference previously cited in the international application PCT/_____; and/or
- ☐ each reference previously cited in prior parent application Serial No. _____.

- 1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

- 1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, or

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

- a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after

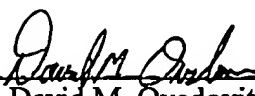
making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☒ a U.S. Patent Office Action is submitted herewith,
 - c. ☐ the concise explanation contained in the specification of the present application at page,
 - d. ☒ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☒ A U.S. Patent Office Action citing one or more of the references is enclosed.
6. ☐ Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Kiyomi SAKAMOTO et al.

By 
David M. Ovedovitz
Registration No. 45,336
Attorney for Applicants

DMO/jmj
Washington, D.C. 20006-1021
Telephone (202) 721-8200
Facsimile (202) 721-8250
November 18, 2005

Sheet 1 of 1

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: November 18, 2005

ATTY DOCKET NO.
2001_0308ASERIAL NO.
09/805,991APPLICANT
Kiyomi SAKAMOTO et al.FILING DATE
March 15, 2001GROUP
2671

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,175,802	1/2001	Okude et al.			
	AB	5,214,793	5/1993	Conway et al.			
	AC	6,006,161	12/1999	Katou			
	AD	6,141,014	10/2000	Endo et al.			
	AE	6,169,552	1/2001	Endo et al.			
	AF	6,266,609	7/2001	Fastenrath			
	AG	6,346,942	2/2002	Endo et al.			
	AH	6,359,571	3/2002	Endo et al.			
	AI	6,405,129	6/2002	Yokota			
	AJ	6,621,494	9/2003	Matsuoka et al.			
	AK	6,710,774	3/2004	Kawasaki et al.			
	AL	2001/0026276	10/2001	Sakamoto et al.			
	AM	2001/0028350	10/2001	Matsuoka et al.			

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AN	04-335697	11/1992	JP			Abstract
	AO	2000-055675	2/2000	JP			Abstract

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED



UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/958,301	10/06/2004	Kiyomi Sakamoto	2004_1590	1765

513 7590 09/22/2005

WENDEROTH, LIND & PONACK, L.L.P.
2033 K STREET N. W.
SUITE 800
WASHINGTON, DC 20006-1021

EXAMINER

PRENDERGAST, ROBERTA D

ART UNIT

PAPER NUMBER

2671

DATE MAILED: 09/22/2005

COPY

Please find below and/or attached an Office communication concerning this application or proceeding.

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SEP 26 2005

WENDEROTH, LIND & PONACK

Office Action Summary	Application No.	Applicant(s)	
	10/958,301	SAKAMOTO ET AL.	
	Examiner	Art Unit	
	Roberta Prendergast	2671	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 October 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 60-64 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 60-64 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 October 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☒ Certified copies of the priority documents have been received in Application No. 09/805991.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date: _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION***Drawings***

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "S104" has been used to designate steps S104-S106 and step S105 has been used to designate step S107 in Fig. 12, see paragraphs [0112]-[0115].

The drawings are further objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description:

Fig. 34, element 348, see paragraph [0176]; Fig. 36, element 5 is used to indicate element 6 in the spec, see paragraph [0186]; Fig. 42, element S617; Fig. 50, elements 403-406 are either missing or are used to indicate an incorrect portion of the figure, see paragraph [0245].

Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be

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notified and informed of any required corrective action in the next Office action.

The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 60-63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okude et al. U.S. patent No. 6175802 in view of Yoshida U.S. Patent No. 5699056.

Referring to claims 60-63, Okude et al. teaches a map display device for converting externally provided communications information into an applicable object model for arrangement on a map image, said map display device comprising: an input part for receiving an instruction from a user (Fig. 1 (elements 1-4 & 1-5); column 4, lines 62-67); a map data storage part for storing map data (Fig. 1 (element 1-3); column 4, lines 53-61); an object model display information storage part for storing object model display information for displaying at least one object model having a shape which allows the user to understand content of the communications information on the map image (Fig. 5 (elements 3-7, data read unit) & 19 (elements 19-1 & 19-2); column 7, lines 26-37); a communications part for receiving the communications information, the

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communications information including information which varies in real time (Fig. 1 (elements 1-7 thru 1-11) & 5 (element 3-5), i.e. the current location detection unit indicates information which varies in real time; column 5, lines 1-15); a map data arranging part for creating the at least one object model by interpreting the communications information and the object model display information provided by said object model display information storage part and arranging the at least one object model at a position on the map image based on the communications information (Figs. 1 (element 1-1), 3, 5 & 19; columns 5-6, lines 50-19; columns 6-7, lines 55-8, i.e. the operation and processing unit is understood to be the map data arranging unit); and a display part for displaying a result map image including the map image and the at least one object model obtained by said map data arranging part (Figs. 1 (element 1-2) & 24 (element 24-5); column 4, lines 45-53) the at least one object model being a 3D model (Abstract; i.e. the three dimensional map data corresponding to the perspective map is displayed in a 3D manner) but does not specifically teach wherein the communications information includes information indicating a frozen road, said map data arranging part arranges the at least one object model representing icy conditions in a region of the image map corresponding to the frozen road (claim 60), the communications information includes traffic jam information indicating a jammed road, and said map data arranging part arranges the at least one object model representing a traffic jam in a region of the image map corresponding to the jammed road (claim 61), wherein said map data arranging part arranges a plurality of object models representing vehicles in the region of the image map corresponding to the

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jammed road (claim 62), the communications information includes accident information indicating a site of an accident, and said map data arranging part arranges the at least one object model representing a traffic accident in a region of the image map corresponding to the site of the accident (claim 63).

Yoshida teaches wherein the communications information includes information indicating a frozen road, said map data arranging part arranges the at least one object model representing icy conditions in a region of the image map corresponding to the frozen road, the at least one object model being a 3D model (Figs. 71-72; column 40, lines 50-60, i.e. it is understood that the weather information extracted from the telegraphic messages for each area is the communications information, which is being displayed in the region of the map corresponding to the frozen road), wherein said map data arranging part arranges a plurality of object models representing vehicles in the region of the image map corresponding to the jammed road (Figs. 3 (element 31B), 62, & 68; column 5, lines 35-45; column 40, lines 14-21, i.e. it is understood that the traffic jam information extracted from the telegraphic messages for each area is the communications information, which is being displayed in the region of the map corresponding to the jammed road), the communications information includes accident information indicating a site of an accident, and said map data arranging part arranges the at least one object model representing a traffic accident in a region of the image map corresponding to the site of the accident (Figs. 3 (element 31B), 62, & 68; column 5, lines 35-45; column 41, lines 9-24, i.e. it is understood that the accident information extracted from the telegraphic

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messages for each area is the communications information, which is being displayed in the region of the map corresponding to the accident).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the map display device of Okude et al. to include wherein the communications information includes information indicating a frozen road, said map data arranging part arranges the at least one object model representing icy conditions in a region of the image map corresponding to the frozen road (claim 60), the communications information includes traffic jam information indicating a jammed road, and said map data arranging part arranges the at least one object model representing a traffic jam in a region of the image map corresponding to the jammed road (claim 61), wherein said map data arranging part arranges a plurality of object models representing vehicles in the region of the image map corresponding to the jammed road (claim 62), the communications information includes accident information indicating a site of an accident, and said map data arranging part arranges the at least one object model representing a traffic accident in a region of the image map corresponding to the site of the accident (claim 63) thereby improving the traveling experience by supplying accurate traffic, accident, and weather information in real time so that the user can avoid trouble spots (Yoshida, Abstract; column 1, lines 9-15).

Claim 64 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okude et al. U.S. patent No. 6175802 in view of Kakiyama et al. U.S. Patent No. 5293163.

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Referring to claim 64, Okude et al. teaches a map display device for converting externally provided communications information into an applicable object model for arrangement on a map image, said map display device comprising: an input part for receiving an instruction from a user (Fig. 1 (elements 1-4 & 1-5); column 4, lines 62-67); a map data storage part for storing map data (Fig. 1 (element 1-3); column 4, lines 53-61); an object model display information storage part for storing object model display information for displaying at least one object model having a shape which allows the user to understand content of the communications information on the map image (Fig. 5 (elements 3-7, data read unit) & 19 (elements 19-1 & 19-2); column 7, lines 26-37); a communications part for receiving the communications information, the communications information including information which varies in real time (Fig. 1 (elements 1-7 thru 1-11) & 5 (element 5-5), i.e. the current location detection unit indicates information which varies in real time; column 5, lines 1-15); a map data arranging part for creating the at least one object model by interpreting the communications information and the object model display information provided by said object model display information storage part and arranging the at least one object model at a position on the map image based on the communications information (Figs. 1 (element 1-1), 3, 5 & 19; columns 5-6, lines 50-19; columns 6-7, lines 55-8, i.e. the operation and processing unit is understood to be the map data arranging unit); and a display part for displaying a result map image including the map image and the at least one object model obtained by said map data arranging part (Figs. 1 (element 1-2) & 24 (element 24-5); column 4, lines

Notice of References Cited

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10/958,301

Applicant(s)/Patent Under

Reexamination

SAKAMOTO ET AL.

Examiner

Roberta Prendergast

Art Unit

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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,175,802	01-2001	Okude et al.	701/208
	B	US-5,699,056	12-1997	Yoshida, Masato	340/905
	C	US-5,293,163	03-1994	Kakihara et al.	340/995.13
	D	US-5,214,793	05-1993	Conway et al.	455/500
	E	US-6,006,161	12-1999	Katou, Kiyohide	701/212
	F	US-6,141,014	10-2000	Endo et al.	345/427
	G	US-6,169,552	01-2001	Endo et al.	345/427
	H	US-6,266,609	07-2001	Fastenrath, Ulrich	701/200
	I	US-6,346,942	02-2002	Endo et al.	345/427
	J	US-6,359,571	03-2002	Endo et al.	340/988
	K	US-6,405,129	06-2002	Yokota, Tatsuo	701/208
	L	US-6,621,494	09-2003	Matsuoka et al.	345/427
	M	US-6,710,774	03-2004	Kawasaki et al.	345/419

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	JP 04335697 A	11-1992	Japan	OKANO et al.	G09G 05/00
	O	JP 2000055675 A	02-2000	Japan	MURATA, KENICHI	G01C 21/00
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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Notice of References Cited	Application/Control No. 10/958,301	Applicant(s)/Patent Under Reexamination SAKAMOTO ET AL.	
	Examiner Roberta Prendergast	Art Unit 2671	Page 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
.	A	US-2001/0026276	10-2001	Sakamoto et al.	345/473
.	B	US-2001/0028350	10-2001	Matsuoka et al.	345/427
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

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	N					
	O					
	P					
	Q					
	R					
	S					
	T					

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